

ABSTRACT

A pre-load weld fixture apparatus and method are disclosed, which
5 include a stationary pivot block attached to a base, wherein the stationary
pivot block is located adjacent to a nest for maintaining an object to be
welded. Additionally a pivot arm is associated with a pivot arm insert, wherein
the pivot arm rotates about a pivot point provided by a pin press component
associated with the stationary pivot block, such that the pivot point is fixed to
10 the stationary pivot block in relation to the object to be welded and wherein
the pivot arm is positioned parallel to the nest. A spring block can be
connected to the stationary pivot block, wherein the spring block provides
tension to the pivot arm in order to permit a user to maintain the object upon
the base with a desired tension for welding thereof. Finally, a torsion spring
15 can be maintained by the spring block, wherein the torsion spring allows the
spring block to provide tension to the pivot arm.